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|---|--|---|
|   | Application No.  | Applicant(s)  |
|   |  |   |
| Notice of Allowability  | 10/035,736<br>Examiner   | SMITH ET AL. Art Unit   |
|   |  |   |
|   | Callie E. Shosho   | 1714  |
| The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF of the Office or upon petition by the applicant. See 37 CFR 1.313  | (OR REMAINS) CLOSED in this ap<br>or other appropriate communication<br>IGHTS. This application is subject t | plication. If not included not will be mailed in due course. THIS |
| 1. $\boxtimes$ This communication is responsive to <u>amendment filed 1/3/</u>  | 05 and telephonic interview conduc   | <del>led 5/12/05</del> .  |
| 2. X The allowed claim(s) is/are 1-5,9-15,19-26,31-33 and 40-4  | <u>2</u> .   |   |
| 3. The drawings filed on are accepted by the Examine  | r.   |   |
| <ul> <li>4. Acknowledgment is made of a claim for foreign priority ur</li> <li>a) All b) Some* c) None of the:</li> <li>1. Certified copies of the priority documents have</li> <li>2. Certified copies of the priority documents have</li> <li>3. Copies of the certified copies of the priority documents have</li> <li>International Bureau (PCT Rule 17.2(a)).</li> <li>* Certified copies not received:</li> </ul> | been received. been received in Application No   |   |
| Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.   |  | complying with the requirements                                   |
| 5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give   |  |   |
| 6. CORRECTED DRAWINGS ( as "replacement sheets") mus  | et be submitted.   |   |
| (a) ☐ including changes required by the Notice of Draftspers  | on's Patent Drawing Review ( PTO   | -948) attached  |
| 1)  hereto or 2)  to Paper No./Mail Date  | ,  |   |
| (b) including changes required by the attached Examiner's<br>Paper No./Mail Date  | s Amendment / Comment or in the C  | Office action of  |
| Identifying Indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t  |  |   |
| 7. DEPOSIT OF and/or INFORMATION about the depo-<br>attached Examiner's comment regarding REQUIREMENT   |  |   |
| Attachment(s) 1. ☐ Notice of References Cited (PTO-892)   | 5. Notice of Informal F  | Patent Application (PTO-152)                                      |
| 2. Notice of Draftperson's Patent Drawing Review (PTO-948)  | <ol> <li>Interview Summary Paper No./Mail Da</li> </ol>  |   |
| 3. Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date  | 7. ⊠ Examiner's Amend  |   |
| 4. Examiner's Comment Regarding Requirement for Deposit   |  | ent of Reasons for Allowance                                      |
| of Biological Material  | 9. 🗌 Other   |   |

## Examiner's Amendment

- 1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.
  - (1) Claim 1, first line after the formulae, after "is", delete "an alkylene group,".
  - (2) Claim 11, first line after the formulae, after "is", delete "an alkylene group,".
- (3) Claim 21, line 3, after "(c)", delete "a polyquaternary amine compound" and insert "a quaternary ammonium substituted UV absorbing compound".
  - (4) Claim 21, first line after the formulae, after "is", delete "an alkylene group,".
- (5) Claim 21, line 5 after the formulae, after "(d)", delete "a quaternary ammonium substituted UV absorbing compound" and insert "a polyquaternary amine compound".
  - (6) Claim 24, first line after the formulae, after "is", delete "an alkylene group,".
- 2. Authorization for this examiner's amendment was given in a telephone interview with Judith Byorick on 5/12/05.

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## Statement of Reasons for Allowance

3. The present claims are allowable over the "closest" prior art Gundlach et al. (U.S. 6,054,505), Vieira et al. (U.S. 5,096,781), and WO 97/20000 for the following reasons:

Gundlach et al. disclose ink comprising water, 0.1-040% nonpolymeric salt, 1-5% anionic dye, and 0.01-50% polyquaternary amine. It is disclosed that the anionic dye can complex with the polyquaternary amine. There is further disclosed process wherein the ink is incorporated into ink jet printer and ejected onto substrate. However, there is no disclosure or suggestion in Gundlach et al. of quaternary ammonium substituted UV absorbing compound.

In order to meet the requirement in the claims of quaternary ammonium substituted UV absorbing compound, Gundlach et al. was combined with either WO 97/20000 or Vieira et al.

WO 97/20000 discloses ink jet ink comprising colorant stabilizer that is quaternary ammonium substituted UV absorbing compound, namely, choline chloride ester of dimethylaminobenzoic acid of the formula:

However, in light of the amendment to the present claims that all now require specific quaternary ammonium substituted UV absorbing compound as set forth in the formula found in claim 1,

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claim 11, claim 21, and claim 24, i.e. 2-(3-(2H-benzotriazol-2-yl)-4-hydroxyphenyl quaternary compounds, the quaternary ammonium substituted UV absorbing compound of WO 97/20000 is outside the scope of the present claims.

Vieira et al. disclose the use of 0.01-20% light stabilizer of the formula:

## U+SOL\*

where U is radical of hydroxyphenylbenzotriazole and SOL is:

wherein g is 0, A-Y-B- corresponds to presently claimed  $R_1$  and  $R_1$ ,  $R_2$ , and  $R_{33}$  correspond to presently claimed  $R_2$ ,  $R_3$ , and  $R_4$ . However, there is no disclosure or suggestion that A-Y-B, which corresponds to presently claimed  $R_1$ , is arylalkylene group or polyoxyalkylene group as now required in all present claims (see examiner's amendment in paragraph 1 above).

Thus, it is clear that Gundlach et al., Vieira et al., and WO 97/20000, either alone or in combination, do not disclose or suggest the present invention.

In light of the above, it is clear that the rejections of record are untenable and so, the present claims are passed to issue.

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Any comments considered necessary by applicant must be submitted no later than the

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payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for

Allowance."

4. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Callie E. Shosho whose telephone number is 571-272-1123. The

examiner can normally be reached on Monday-Friday (6:30-4:00) Alternate Fridays Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Vasu Jagannathan can be reached on 571-272-1119. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Callie E. Shosho

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Primary Examiner

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5/13/05